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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,923	08/21/2003	Shih-Huang Chen	4425-314	6508

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EXAMINER
BOAKYE, ALEXANDER O

ART UNIT	PAPER NUMBER
2616	

MAIL DATE	DELIVERY MODE
07/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/644,923	CHEN, SHIH-HUANG	
	Examiner	Art Unit	
	ALEXANDER BOAKYE	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *21 August 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *10-20* is/are allowed.

6)☒ Claim(s) *1-5* is/are rejected.

7)☒ Claim(s) *6-9* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Kimura et al. (US Patent # 4,855,981).

Regarding claim 1, Kimura teaches a method for reading sensor, (Figs. 3 and 16) comprising: connecting a linear sensor (11) and receiving (10) a parameter N (memory cell), wherein the linear sensor has a plurality of memory cells arranged in linear order and each the cell is independent from other the cells, and the parameter N (memory cell) is a positive integer (column 5, lines 45-52); numbering the memory cells sequentially from a first memory cell to a (N-1)-th memory cell depending on the linear arrangement order (column 5, lines 45-52); and reading the contents of the unnumbered memory cells sequentially from the N-th memory cell (column 5, lines 37-52).

Regarding claim 2, Kimura further teaches that the memory cells are

each independent from other the cells and are read separately (column 13, lines 40-50).

Regarding claim 3, Kimura further teaches that parameter is set by manually input when the linear sensor is needed to be read (column 5, lines 37-46).

Regarding claim 4, Kimura further teaches that parameter is automatically generated by said linear sensor (column 5, lines 37-46).

Regarding claim 5, Kimura further teaches that the parameter corresponds to a specific memory cell that is the first one of the memory cells stored nonzero signal when the linear sensor is sensing an object (column 5, lines 37-46).

Allowable Subject Matter

2. Claims 6-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-20 are allowable.

The following is a statement of reasons for the indication of allowable subject matter: As to claims 10-18, the prior art of record does not teach connecting a 2-D sensor and receiving a specific amount of parameters, wherein said 2-D

sensor is composed of a specific amount of linear sensors, and each said linear sensor has a plurality of memory cells arranged by linear order and each parameter is a positive integer corresponding to a single linear sensor; and proceeding the reading action of each the linear sensors from the first one, comprising: numbering the memory cells sequentially depending on linear arrangement order from the first memory cell until the (N-1)-th memory cell, wherein N is the parameter corresponding to the linear sensor; and reading the contents of the memory cells that are unnumbered in linear arrangement order sequentially.

As to claims 19-20, the prior art of record does not teach connecting a linear sensor and receiving a plurality of parameters, wherein the linear sensor has a plurality of memory ceils arranged in linear order and each the memory cell is independent from others, and each of the parameters is a positive integers; numbering the memory cells sequentially from a first memory cell of the linear sensor depending on linear arrangement order sequentially to find out a plurality of specific memory cells with numbers equal to the parameters, wherein the specific memory cells are paired off and each pair of the specific memory cells marks a specific memory cell section; and reading the specific memory cell sections sequentially depending on linear arrangement order.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The Fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or PUBLIC PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Electronic Business Center (EBC)** numbers at 866-217-9197 and 703-305-3028.

Alexander Boakye

Patent Examiner

Alexander Boakye

06/24/07